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## NOTICE OF ALLOWANCE AND FEE(S) DUE

25191

7590

07/16/2010

BURR & BROWN PO BOX 7068 SYRACUSE, NY 13261-7068 EXAMINER

JACOBSON, MICHELE LYNN

ART UNIT PAPER NUMBER

1782

DATE MAILED: 07/16/2010

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
Ī	10/522,392	10/31/2005	Kikuo Matsuoka	892_039	6313

TITLE OF INVENTION: METHOD OF CUTTING MULTILAYER BODY, METHOD OF FORMING MULTILAYER CONTAINER, AND

MULTILAYER FORMED PRODUCT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/18/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

appropriate. All further indicated unless correcte naintenance fee notificate	ed below or directed oth	ng the Patent, advance or nerwise in Block 1, by (a	rders and notification of a) specifying a new con	f maintenance for respondence add	es will be ress; and/o	mailed to the current (b) indicating a separ	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDI	ENCE ADDRESS (Note: Use Bl	ock 1 for any change of address)	F	ee(s) Transmittal apers. Each addi	. This certi	ficate cannot be used for	domestic mailings of the or any other accompanying at or formal drawing, must
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			ſ				(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR	ATTO	DRNEY DOCKET NO.	CONFIRMATION NO.
10/522,392	10/31/2005	•	Kikuo Matsuoka		•	892_039	6313
MULTILAYER FORME	ED PRODUCT	UTTING MULTILAYE		_			
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	E PREV. PAID	SSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0 \$1		\$1810	10/18/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
JACOBSON, MI	ICHELE LYNN	1782	428-035700				
CFR 1.363).  Change of corresponded and Change of Corresponded and Change of Corresponding to the Corresponding to	ence address or indication ondence address (or Cha 3/122) attached. ication (or "Fee Address' 12 or more recent) attach	nge of Correspondence	(1) the names of up or agents OR, altern (2) the name of a si registered attorney of	ne of a single firm (having as a member a attorney or agent) and the names of up to d patent attorneys or agents. If no name is			
PLEASE NOTE: Unl	less an assignee is identi h in 37 CFR 3.11. Comp	A TO BE PRINTED ON T ified below, no assignee oletion of this form is NO	data will appear on th T a substitute for filing (B) RESIDENCE: (CI	e patent. If an a an assignment. TY and STATE (	OR COUN	TRY)	ocument has been filed for
lease check the appropri	iate assignee category or	categories (will not be pr	rinted on the patent):	☐ Individual ☐	Corporat	ion or other private gro	up entity Government
	are submitted:  Vo small entity discount p  # of Copies	permitted)	<ul> <li>4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)</li> <li>A check is enclosed.</li> <li>Payment by credit card. Form PTO-2038 is attached.</li> <li>The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).</li> </ul>				
_ ~ .	<b>tus</b> (from status indicated s SMALL ENTITY statu		h Applicant is no l	onger claiming S	MALL EN	TITY status. See 37 CF	$(P, 1, 27(\alpha)/2)$
NOTE: The Issue Fee and	d Publication Fee (if requ		d from anyone other tha				e assignee or other party in
Authorized Signature				Date			
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BURR & BROWN				JACOBSON, MICHELE LYNN		
PO BOX 7068				ART UNIT	PAPER NUMBER	
SYRACUSE, NY 13261-7068		1-7068		1782		
				DATE MAILED: 07/16/2010		

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 582 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 582 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/522,392	MATSUOKA ET AL.	
Notice of Allowability	Examiner	Art Unit	
	   MICHELE JACOBSON	1782	
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate community. This application is su	his application. If not included ication will be mailed in due course. <b>TH</b>	
1. This communication is responsive to <u>amendment submitte</u>	<u>d 3/11/10</u> .		
2. ☑ The allowed claim(s) is/are <u>5-12 and 27</u> .			
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority unal  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).</li> </ul>	e been received. e been received in Application	No	e
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements	
4. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give			
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.		
(a) $\square$ including changes required by the Notice of Draftspers	son's Patent Drawing Review	( PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or i	n the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			
Attachment(s)	5 Disting of last	was a Datant Amplication	
<ol> <li>Notice of References Cited (PTO-892)</li> <li>D Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>		rmal Patent Application	
•	Paper No./M	lail Date mendment/Comment	
<ol> <li>Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>3/17/10</u></li> </ol>			
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		tatement of Reasons for Allowance	
	9.		
	/Rena L. Dye/ Supervisory Pate	ent Examiner, Art Unit 1782	

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### **DETAILED ACTION**

## Allowable Subject Matter

- 1. Claims 5-12 and 27 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: Independent claim 27 has been amended in the response submitted 3/11/10 to recite the limitation that at least one layer of the multilayer structure is in a fused state above the melting point temperature of the at least one resin layer while the push cutter is pushed into the multilayer structure by a predetermined amount followed by cooling and hardening of the at least one reason layer in the fused state below the melting point temperature thereof before the push cutter is finally pushed through the laminate to engage the cutter receiving portion.
- 3. Nagata et al. U.S. Patent No. 6,066,226 is the closest prior art and was previously applied to reject this application. Nagata teaches a process similar to that instantly claimed, but fails to teach the concept of pressing the upper layer of the laminate into the lower layer while at least one layer is in the fused state without cutting all the way through followed by cooling of the multilayer structure before the cutting process is completed. Several of the references cited by the examiner teach the concept of cutting thermoplastic or polymer films while they are in a heated or fused state (See for example USPN 4,053,671, USPN 2,735,797, USPN 5,110,399) and this method is widely employed in the production of polymeric articles. However, applicant's

invention differs from the methods taught in the prior art by the inclusion of the cooling step which is performed prior to cutting all the way through the multilayer film.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHELE JACOBSON whose telephone number is (571)272-8905. The examiner can normally be reached on Monday-Thursday 8:30 AM-7 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye can be reached on (571)272-3186. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Michele L. Jacobson Examiner /M. J./ Art Unit 1782

/Rena L. Dye/ Supervisory Patent Examiner, Art Unit 1782